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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/665,331	09/19/2003	Herbert Blum	TRW (REPA) 6748	6251
7590	11/04/2004		EXAMINER	
TAROLLI, SUNDHEIM, COVELL, TUMMINO & SZABO L.L.P. 1111 LEADER BLDG. 526 SUPERIOR AVENUE CLEVELAND, OH 44114-1400			KIM, SANG K	
			ART UNIT	PAPER NUMBER
			3654	

DATE MAILED: 11/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/665,331	BLUM ET AL. <i>m</i>
	<b>Examiner</b>	<b>Art Unit</b>
	SANG KIM	3654

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

1)  Responsive to communication(s) filed on \_\_\_\_.

2a)  This action is **FINAL**.                    2b)  This action is non-final.

3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

4)  Claim(s) 1-15 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5)  Claim(s) \_\_\_\_\_ is/are allowed.

6)  Claim(s) 1-3 and 6-15 is/are rejected.

7)  Claim(s) 4 and 5 is/are objected to.

8)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

9)  The specification is objected to by the Examiner.

10)  The drawing(s) filed on \_\_\_\_\_ is/are: a)  accepted or b)  objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a)  All   b)  Some \* c)  None of:  
1.  Certified copies of the priority documents have been received.  
2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

1)  Notice of References Cited (PTO-892)  
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 11/7/03.

4)  Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_ .  
5)  Notice of Informal Patent Application (PTO-152)  
6)  Other: \_\_\_\_ .

***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 6-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 6 is indefinite and vague. How is the ring groove having an axial depth and a radial width that are determined by "an envisaged force limiting level"? Is envisaged force determined by the cutting element which has an inclined plane and at an angle of 330 degree the cutting element comes out of engagement with the material of the flange? Or does the ring groove have different depth to cause a negative axial inclination?

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Singer et al., U.S. Patent No. 6131843.

With respect to claim 1, Singer '843 shows a belt spool (20) that is rotatably mounted in a frame (not shown) and has at least one flange (edge portion of the spool) and a disk (63) that can be non-rotatably blocked on said frame, wherein said disk (63) and said flange (edge portion of the spool) of said belt spool (20) are coupled by a cutting element (no reference number, arcuate aperture of 65) with a relative rotation between said disk (63) and said flange (edge portion of the spool), which comes into a coupling position and cuts material (shearing off pin 64) when said relative rotation is continued, see figures 7A-B.

With respect to claim 2, Singer '843 shows the disk (63) coupled to said belt spool (20) by a torsion bar (no reference number assigned), see figure 7A.

With respect to claim 3, Singer '843 shows the cutting element is accommodated in recess (no reference number, arcuate aperture of 65) of said disk (63) and supported in an axial direction as well as in a circumferential direction, and in that it has a blade (edge portion of the arcuate aperture) that in said coupling position engages on an end face of said flange opposite to said blade, see figures 7A-B.

Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Fujii et al., U.S. Patent No. 6416008 B1.

With respect to claim 1, Fujii '008 shows a belt spool (4) that is rotatably mounted in a frame (not shown) and has at least one flange (edge portion of the spool) and a

disk (14) that can be non-rotatably blocked on said frame, wherein said disk (14) and said flange (edge portion of the spool) of said belt spool (4) are coupled by a cutting element (40-42) with a relative rotation between said disk (14) and said flange (edge portion of the spool), which comes into a coupling position and cuts material (shearing off 31-33) when said relative rotation is continued, see figures 6a-d.

With respect to claim 2, Fujii '008 shows the disk (14) coupled to said belt spool (4) by a torsion bar (7), see figure 6a.

With respect to claim 3, Fujii '008 shows the cutting element (41-42) is accommodated in recess (37-39) of said disk (14) and supported in an axial direction as well as in a circumferential direction, and in that it has a blade (40a, 42a, 44a) that in said coupling position engages on an end face of said flange opposite to said blade, see figure 6c.

### ***Allowable Subject Matter***

Claim 4-5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 6-15 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SANG KIM whose telephone number is 703-305-3712. The examiner can normally be reached Monday through Friday from 8:00 A.M. to 5:30 P.M. alternating Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kathy Matecki, can be reached on (703) 308-2688. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SK

10/27/04



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